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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/597,168	07/31/2008	Naotaka Ando	3714449-00010	7075	
	24573 7590 09/02/2010 K&L Gates LLP			EXAMINER	
P.O. Box 1135	60600	DANNEMAN, PAUL			
CHICAGO, IL 60690			ART UNIT	PAPER NUMBER	
			3627		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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chicago.patents@klgates.com

	Application No.	Applicant(s)				
	10/597,168	ANDO, NAOTAKA				
Office Action Summary	Examiner	Art Unit				
	PAUL DANNEMAN	3627				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>13 Ju</u>	ılv 2006					
	action is non-final.					
<u>/_</u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•					
. 4)⊠ Claim(s) <u>1-33</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-33</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 13 July 2006 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
S) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Information Disclosure Statement(s) (PTO/SB/08) Other:						

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DETAILED ACTION

Status of the Claims

1. This Office Action is in response to the Application filed on 13 July 2006.

2. Claims 1-33 are pending and have been examined in this Office Action.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as

set forth in section 102 of this title, if the differences between the subject matter sought to be

patented and the prior art are such that the subject matter as a whole would have been obvious

at the time the invention was made to a person having ordinary skill in the art to which said

subject matter pertains. Patentability shall not be negatived by the manner in which the invention

was made.

4. The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966),

that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are

summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or

nonobviousness.

5. Claims 1-9 and 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Du et al.,

US 7,734,729 B2 ("Du").

Claim 1:

With regard to the system limitations:

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Du in at least Fig.1, Fig.3 and Column 4, lines 1-15 discloses an information retrieving system.

Du in at least Fig.4A Column 2, lines 1-31 discloses a portable imaging device (mobile phone,

digital camera, PDA and etc.) for capturing imaging data of a desired item. The imaging data is

communicated to one or more servers. Identifying data may be extracted from the image using

any one of the standard image recognition and processing programs available. The data

identifying the selected item is then used to query one or more resources to obtain item

information related to the selected item. The obtained information is then communicated to the

mobile phone (portable imaging device) for display to the consumer.

Du in at least Fig.2A, Column 7, lines 59-67, Column 8, lines 1-14 and lines 65-67 and Column 9,

lines 1-24 discloses that the images may contain graphic design, such as a symbol or trademark

and are stored in any one of several databases used to identify the selected item.

Claims 2, 3 and 4:

With regard to the further limitation of Claim 1:

Du in at least Column 3, lines 31-67 further discloses that image captured by the portable imaging

device and communicated to a server is analyzed and data identifying the selected item is

extracted from the image. The identifying data may include Universal Product Code (UPC), text

on the packaging of the product, indicia on the product itself, etc. Du in at least Column 7, lines

5-16 further discloses that the image captured may be that of the product itself.

Claims 5-8:

With regard to the further limitation of Claim 1:

Du in at least Fig.3, Column 7, lines 26-67 and Column 8, lines 1-39 discloses that the image may

comprise either a gray scale image or a color image. The image may also include full-motion

video images in addition to, or instead of, a still image. Du in at least Column 8, lines 40-64

further discloses that identifying data may be extracted from the captured image either before or

after the image is communicated to the server.

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Claim 9:

With regard to the further limitation of Claim 1:

Du in at least Fig.3 and Column 6, lines 57-67 discloses that the information processing method

300 process an image to identify the item identified by the image and returns to the user

information pertaining to the identified item.

Claims 12-14:

With regard to the further limitation of Claim 1:

Du in at least Fig.3 and Column 6, lines 57-67 discloses that the information processing method

300 process an image to identify the item identified by the image and return to the user

information pertaining to the identified item.

Claim 15:

With regard to the further limitation of Claim 1:

Du in at least Fig.4A Column 2, lines 1-31 discloses a portable imaging device (mobile phone,

digital camera, PDA and etc.) for capturing imaging data of a desired item.

6. Claims 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Du et al., US

7,734,729 B2 ("Du") as applied to claims 1-9 above, and further in view of Ogasawara, US 6,512,919 B2

and further in view of Lennon, US 6,624,843 B2.

Claims 10 and 11:

With regard to the further limitation of Claim 9:

Du in at least Column 3, lines 31-67 further discloses that image captured by the portable imaging

device and communicated to a server is analyzed and data identifying the selected item is

extracted from the image. The identifying data may include Universal Product Code (UPC), text

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on the packaging of the product, indicia on the product itself, etc. Du in at least Column 7, lines 5-16 further discloses that the image captured may be that of the product itself.

Du does not specifically disclose recognizing a shape; however Ogasawara in at least Column 2, lines 60-67 and Column 3, lines 1-3 discloses an electronic shopping system for facilitating purchase transactions via a wireless videophone. Ogasawara in at least Column 3, lines 4-20 further discloses that the electronic shopping system comprises a server and at least one wireless videophone for communicating with the server. Ogasawara in at least Column 22, lines 59-67 and Column 23, lines 1-10 further discloses that the present invention allows bar code and/or alpha-numeric information to be captured. Ogasawara further discloses that the pattern and/or character recognition and data processing may be performed within the video phone or at the server that receives the image data from the video phone.

Ogasawara in at least Column 23, lines 11-30 further discloses that advanced pattern recognition software may be used to extend the capabilities of the image recognition software to include identifying any merchandise item having a <u>distinct or identifiable shape</u> or other <u>visually identifiable characteristics</u> and returning the merchandise information to the customer for display on the wireless video phone.

It would have been obvious, at the time of the invention to combine the well known elements of Du's system and method for obtaining information related to an item using a portable imaging device with the equally well known features of Ogasawara's advanced pattern recognition software, by known methods with no change in their respective functions, and where the combination would yield predictable results.

Du and Ogasawara do not disclose recognizing a person; however Lennon in at least Colum 1, lines 13-16 discloses an invention related to commercial system having a method and apparatus for capturing a person's image and using the captured image in a retailing system.

Lennon in at least Column 2, lines 29-51 further discloses that the computer system is capable of merging video or still images of live customers with video or still images of stored reference model images wearing an apparel item. The computer system retrieves the stored reference

images from a database. Lennon in at least Column 5, lines 52-67 further discloses the use of storage programs and <u>visual pattern recognition programs</u> which are used to create the database of items with the meta information that describes each reference image.

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It would have been obvious, at the time of the invention to modify the Du and Ogasawara combination with Lennon's visual pattern recognition program to recognize a person, with the motivation to enhance the shopping system's ability to recognize people, characters and shapes and make a customer's shopping experience memorable.

7. Claims 16-19, 20-26 and 31-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Du et al., US 7,734,729 B2 ("Du") as applied to claims 1-9 above, and further in view of Lennon, US 6,624,843 B2.

Claims 16-19:

With regard to the system limitations:

Du in at least Fig.1, Fig.3 and Column 4, lines 1-15 discloses an information retrieving system. Du in at least Fig.4A Column 2, lines 1-31 discloses a portable imaging device (mobile phone, digital camera, PDA and etc.) for capturing imaging data of a desired item. The imaging data is communicated to one or more servers. Identifying data may be extracted from the image using any one of the standard image recognition and processing programs available. The data identifying the selected item is then used to query one or more resources to <u>obtain item information</u> related to the selected item. The obtained information is then communicated to the mobile phone (portable imaging device) for display to the consumer.

Du in at least Fig.2A, Column 7, lines 59-67, Column 8, lines 1-14 and lines 65-67 and Column 9, lines 1-24 discloses that the images may contain graphic design, such as a symbol or trademark and are stored in any one of several databases used to identify the selected item.

Du does not specifically disclose the use of meta data (meta information); however Lennon in at least Column 2, lines 29-51 further discloses that the computer system is capable of merging

<u>video or still images of live customers with</u> video or still images of <u>stored reference model images</u> wearing an apparel item. The computer system retrieves the stored reference images from a database. Lennon in at least Column 5, lines 52-67 further discloses the use of storage programs and <u>visual pattern recognition programs</u> which are used to create the database of items with the meta information that describes each reference image.

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It would have been obvious, at the time of the invention to modify the Du's system and method for obtaining information related to an item of commerce using a portable imaging device with Lennon's visual pattern recognition program which is used to create the database of items with the meta information that describes each reference image in the database with the motivation to provide a shopping system with as item information that helps a customer decide on purchasing an item.

Claims 20 and 21:

With regard to the image recognizing apparatus limitations:

Du in at least Fig.1, Fig.3 and Column 4, lines 1-15 discloses an information retrieving system. Du in at least Fig.4A Column 2, lines 1-31 discloses a portable imaging device (mobile phone, digital camera, PDA and etc.) for capturing imaging data of a desired item. The imaging data is communicated to one or more servers. Identifying data may be extracted from the image using any one of the standard image recognition and processing programs available. The data identifying the selected item is then used to query one or more resources to obtain item information related to the selected item. The obtained information is then communicated to the mobile phone (portable imaging device) for display to the consumer.

Du in at least Fig.2A, Column 7, lines 59-67, Column 8, lines 1-14 and lines 65-67 and Column 9, lines 1-24 discloses that the images may contain graphic design, such as a <u>symbol or trademark</u> and are stored in any one of several databases used to identify the selected item.

Du does not specifically disclose the use of meta data; however Lennon in at least Column 5, lines 52-67 further discloses the use of storage programs and <u>visual pattern recognition programs</u>

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which are used to create the database of items with the meta information that describes each

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reference image.

It would have been obvious, at the time of the invention to modify the Du's system and method for

obtaining information related to an item of commerce using a portable imaging device with

Lennon's visual pattern recognition program which is used to create the database of items with

the meta information that describes each reference image in the database with the motivation to

provide a shopping system with item information that describes an item and assists the customer

in determining if this is the item they are searching for and may wish to purchase.

Claims 22-25:

With regard to the further limitation of Claim 20:

Du in at least Fig.3, Column 7, lines 26-67 and Column 8, lines 1-39 discloses that the image may

comprise either a gray scale image or a color image. The image may also include full-motion

video images in addition to, or instead of, a still image. Du in at least Column 8, lines 40-64

further discloses that identifying data may be extracted from the captured image either before or

after the image is communicated to the server.

Claim 26:

With regard to the further limitation of Claim 20:

Du in at least Fig.3 and Column 6, lines 57-67 discloses that the information processing method

300 process an image to identify the item identified by the image and returns to the user

information pertaining to the identified item.

Claims 31-33:

With regard to the sales system limitations:

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Du in at least Column 2, lines 3-48 discloses an interactive merchandising system for communication information associated with commerce items, e.g., price, availability, reviews, etc. provided by e.g., a brick-and-mortar retail store and/or an online retail store.

Du in at least Column 3, lines 31-67 further discloses that image captured by the portable imaging device and communicated to a server is <u>analyzed and data identifying the selected item is extracted from the image</u>. The identifying data may include Universal Product Code (UPC), text on the packaging of the product, indicia on the product itself, etc. Du in at least Column 7, lines 5-16 further discloses that the image captured may be that of the product itself.

Du in at least Column 4, lines 16-47 discloses that the server 103 may be a computer that is associated with a store or other entity that provides goods and/or services to others, whether retail, wholesale or otherwise, or any other entity.

Du in at least Column 10, lines 40-46 further discloses that when item information is communicated back to the user's mobile device, the user may be provided with a control that allows the <u>user to immediately purchase</u> the selected item from the online source. Existing software configured to execute electronic commerce purchase transactions can be used to implement such a feature.

Du does not disclose the use of meta data; however Lennon in at least Colum 1, lines 13-16 discloses an invention related to commercial system having a method and apparatus for capturing a person's image and using the captured image in a retailing system.

Lennon in at least Column 2, lines 29-51 further discloses that the computer system is capable of merging video or still images of live customers with video or still images of stored reference model images wearing an apparel item. The computer system retrieves the stored reference images from a database. Lennon in at least Column 5, lines 52-67 further discloses the use of storage programs and visual pattern recognition programs which are used to create the database of items with the meta information that describes each reference image.

It would have been obvious, at the time of the invention to modify the Du's system and method for obtaining information related to an item of commerce using a portable imaging device for conducting purchases with Lennon's visual pattern recognition program to recognize a person and use of meta data, with the motivation to enhance the shopping system's ability to locate the items they are searching for and purchasing those items.

8. Claims 27-28 and 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Du et al., US 7,734,729 B2 ("Du") and further in view of Lennon, US 6,624,843 B2 as applied to claim 26 above, and further in view of Ogasawara, US 6,512,919 B2.

Claims 27 and 28:

With regard to the further limitation of Claim 26:

Du in at least Column 3, lines 31-67 further discloses that image captured by the portable imaging device and communicated to a server is <u>analyzed and data identifying the selected item is extracted from the image</u>. The identifying data may include Universal Product Code (UPC), text on the packaging of the product, indicia on the product itself, etc. Du in at least Column 7, lines 5-16 further discloses that the image captured may be that of the product itself.

Du does not disclose recognizing a person; however Lennon in at least Colum 1, lines 13-16 discloses an invention related to commercial system having a method and apparatus for capturing a person's image and using the captured image in a retailing system.

Lennon in at least Column 2, lines 29-51 further discloses that the computer system is capable of merging video or still images of live customers with video or still images of stored reference model images wearing an apparel item. The computer system retrieves the stored reference images from a database. Lennon in at least Column 5, lines 52-67 further discloses the use of storage programs and visual pattern recognition programs which are used to create the database of items with the meta information that describes each reference image.

It would have been obvious, at the time of the invention to modify the Du's system and method for obtaining information related to an item of commerce using a portable imaging device with Lennon's visual pattern recognition program to recognize a person, with the motivation to

enhance the shopping system's ability to recognize people, characters and shapes and make a

customer's shopping experience memorable.

Du and Lennon do not specifically disclose recognizing a shape; however Ogasawara in at least

Column 2, lines 60-67 and Column 3, lines 1-3 discloses an electronic shopping system for

facilitating purchase transactions via a wireless videophone. Ogasawara in at least Column 3,

lines 4-20 further discloses that the electronic shopping system comprises a server and at least

one wireless videophone for communicating with the server. Ogasawara in at least Column 22,

lines 59-67 and Column 23, lines 1-10 further discloses that the present invention allows bar code

and/or alpha-numeric information to be captured. Ogasawara further discloses that the pattern

and/or character recognition and data processing may be performed within the video phone or at

the server that receives the image data from the video phone.

Ogasawara in at least Column 23, lines 11-30 further discloses that advanced pattern recognition

software may be used to extend the capabilities of the image recognition software to include

identifying any merchandise item having a distinct or identifiable shape or other visually

identifiable characteristics and returning the merchandise information to the customer for display

on the wireless video phone.

It would have been obvious, at the time of the invention to combine the well known elements of

Du's system and method for obtaining information related to an item using a portable imaging

device as modified with Lennon's visual pattern recognition program to recognize a person with

the equally well known features of Ogasawara's advanced pattern recognition software, by known

methods with no change in their respective functions, and where the combination would yield

predictable results.

Claims 29 and 30:

With regard to the image recognizing apparatus limitations:

Du in at least Fig.1, Fig.3 and Column 4, lines 1-15 discloses an information retrieving system.

Du in at least Fig.4A Column 2, lines 1-31 discloses a portable imaging device (mobile phone,

digital camera, PDA and etc.) for capturing imaging data of a desired item. The imaging data is communicated to one or more servers. Identifying data may be extracted from the image using any one of the standard image recognition and processing programs available. The data identifying the selected item is then used to query one or more resources to <u>obtain item information</u> related to the selected item. The obtained information is then communicated to the mobile phone (portable imaging device) for display to the consumer.

Du in at least Fig.2A, Column 7, lines 59-67, Column 8, lines 1-14 and lines 65-67 and Column 9, lines 1-24 discloses that the images may contain graphic design, such as a <u>symbol or trademark</u> and are stored in any one of several databases used to identify the selected item.

Du does not specifically disclose the use of meta data; however Lennon in at least Column 5, lines 52-67 further discloses the use of storage programs and <u>visual pattern recognition programs</u> which are used to create the database of items with the <u>meta information</u> that describes each reference image.

It would have been obvious, at the time of the invention to modify the Du's system and method for obtaining information related to an item of commerce using a portable imaging device with Lennon's visual pattern recognition program which is used to create the database of items with the meta information that describes each reference image in the database with the motivation to provide a shopping system with item information that describes an item and assists the customer in determining if this is the item they are searching for and may wish to purchase.

Du and Lennon do not specifically disclose recognizing a shape; however Ogasawara in at least Column 2, lines 60-67 and Column 3, lines 1-3 discloses an electronic shopping system for facilitating purchase transactions via a wireless videophone. Ogasawara in at least Column 3, lines 4-20 further discloses that the electronic shopping system comprises a server and at least one wireless videophone for communicating with the server. Ogasawara in at least Column 22, lines 59-67 and Column 23, lines 1-10 further discloses that the present invention allows bar code and/or alpha-numeric information to be captured. Ogasawara further discloses that the pattern

and/or character recognition and data processing may be performed within the video phone or at the server that receives the image data from the video phone.

Ogasawara in at least Column 23, lines 11-30 further discloses that advanced pattern recognition software may be used to extend the capabilities of the image recognition software to include identifying any merchandise item having a <u>distinct or identifiable shape</u> or other <u>visually identifiable characteristics</u> and returning the merchandise information to the customer for display on the wireless video phone.

It would have been obvious, at the time of the invention to combine the well known elements of Du's system and method for obtaining information related to an item using a portable imaging device as modified with Lennon's use of meta information in a database with the equally well known features of Ogasawara's advanced pattern recognition software, by known methods with no change in their respective functions, and where the combination would yield predictable results.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL DANNEMAN whose telephone number is (571)270-1863. The examiner can normally be reached on Mon.-Thurs. 6AM-5PM Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Florian Zeender can be reached on 571-272-6790. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Paul Danneman/

1000.

Examiner, Art Unit 3627

27 August 2010

/F. Ryan Zeender/

Supervisory Patent Examiner, Art Unit 3627